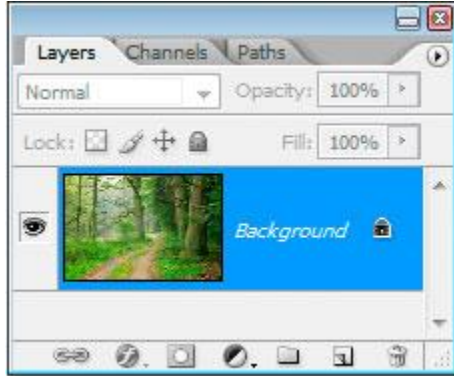


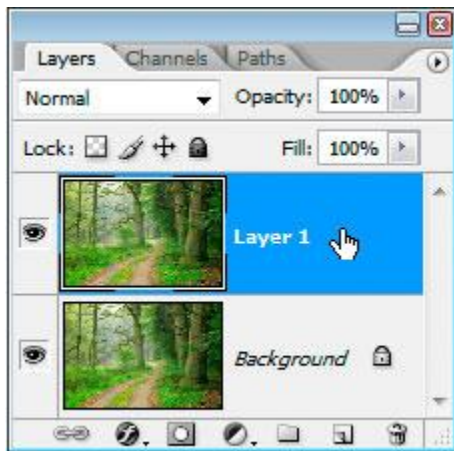
Step 1: Duplicate The Background Layer

With my photo open in Photoshop, I currently have one layer in my Layers palette, the "Background" layer, which contains my original image:



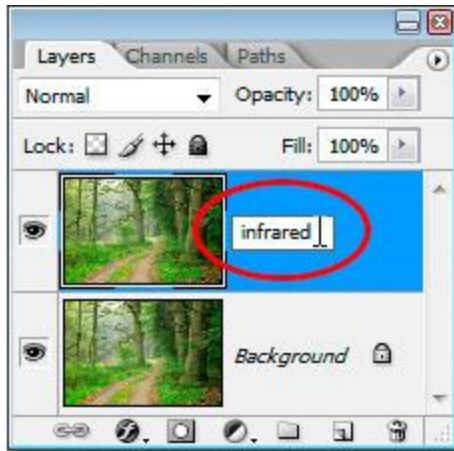
Photoshop tutorial: Photoshop's Layers palette showing the Background layer containing my original image.

The first thing I need to do in creating this effect is to duplicate this layer, and I'll do that with the keyboard shortcut, **Ctrl+J** (Win) / **Command+J** (Mac), which tells Photoshop to give me a copy of this layer directly above it:



Photoshop tutorial: Photoshop's Layers palette now showing the copy of my Background layer directly above it, which Photoshop has named "Layer 1".

Photoshop automatically names the layer "Layer 1", which tells me nothing about it, so I'm going to **double-click directly on the name of the layer** and rename it to "infrared":



Photoshop tutorial: Double-click on the name "Layer 1" and change it to "infrared".

Step 2: Select The Green Channel In The Channels Palette

Go to your **Channels palette** (it's grouped in beside the Layers palette) and **click on the Green channel** to select it:



Photoshop tutorial: Click on the Green channel in the Channels palette to select it.

This will turn your image temporarily black and white:



Photoshop tutorial: The image turns black and white temporarily.

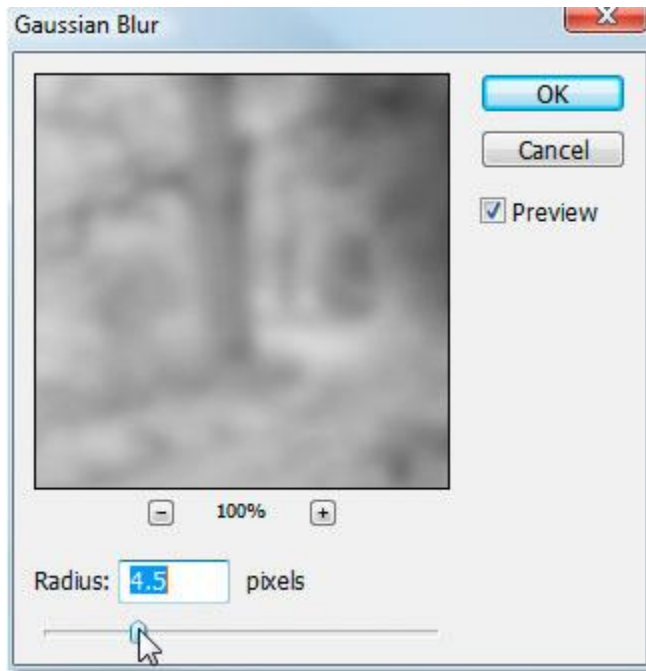
If you don't understand yet how channels in Photoshop work, it may seem odd that when you selected the green color channel in the Channels palette, the image turned black and white instead of, well, green. We won't get into the details here of how channels work, since that would take an entire tutorial on its own, but what you're seeing here is in fact the green color information in the image, not as you and I see it but as Photoshop sees it, since Photoshop sees everything as either black, white, or some shade of gray in between. If that makes little sense to you, don't worry, you don't need to understand it to create this effect. Simply knowing to click on the green channel in the Channels palette to select it is enough.

We're going to blur this green channel next.



Step 3: Apply The Gaussian Blur Filter To The Green Channel

With the Green channel selected in the Channels palette, go up to the **Filter menu** at the top of the screen, select **Blur**, and then select **Gaussian Blur** to bring up Photoshop's Gaussian Blur dialog box:



Photoshop tutorial: Go to Filter > Blur > Gaussian Blur to bring up the Gaussian Blur dialog box.

Drag the slider bar at the bottom of the Gaussian Blur dialog box left or right to increase or decrease the amount of blur you'll be applying. I'm using a low-resolution image for this tutorial since it's for the web, and for me, a Radius value of about 4.5 pixels gives me a nice soft blur effect. Your image will most likely be much higher resolution, especially if it came from a fairly recent digital camera, so you'll need to use a higher Radius value. Add a good amount of blurring while still being able to make out the basic details of the image, as I've done here:

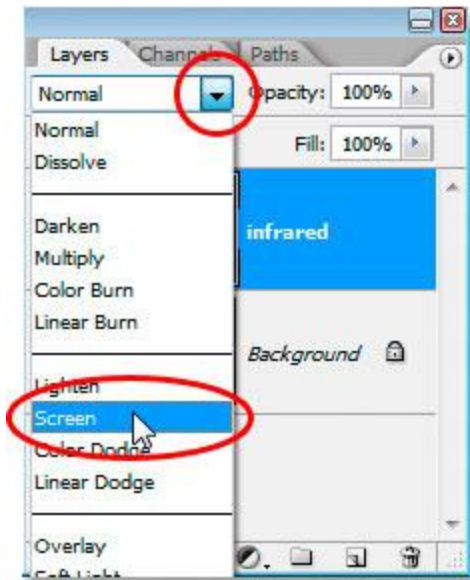


Photoshop tutorial: The image after applying Gaussian Blur to the Green channel.

Click OK when you're done to exit out of the Gaussian Blur filter.

Step 4: Change The Blend Mode Of The Infrared Layer To "Screen"

Now that we've applied the Gaussian Blur filter to the Green channel, switch back to the Layers palette and, with the "infrared" layer still selected, **change the blend mode** of the layer from Normal to **Screen**. To do that, go up to the top of the Layers palette and click on the down-pointing arrow directly to the right of the word "Normal", which brings up a list of available layer blend modes. Click on "Screen" to select it:



Photoshop tutorial: Change the blend mode of the "infrared" layer from "Normal" to "Screen".

Here's my image after changing the "infrared" layer blend mode to "Screen":



Photoshop tutorial: The image after changing the blend mode of the "infrared" layer to "Screen".

Already at this stage, the image is looking pretty cool, but we're not quite done yet. We're going to be using a Channel Mixer adjustment layer next.

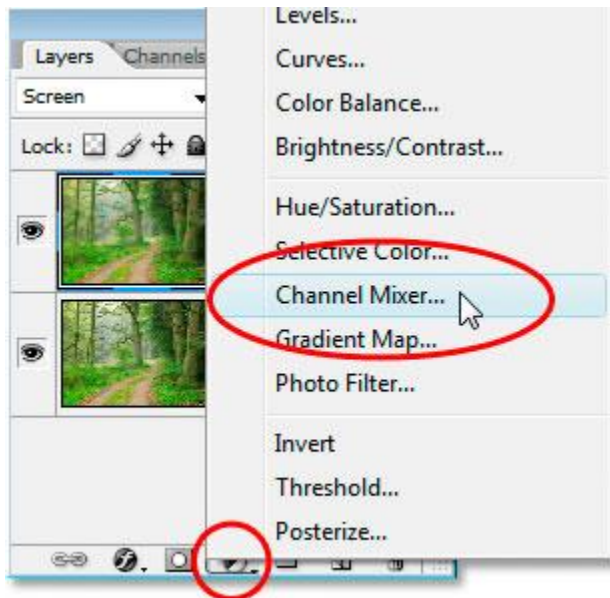


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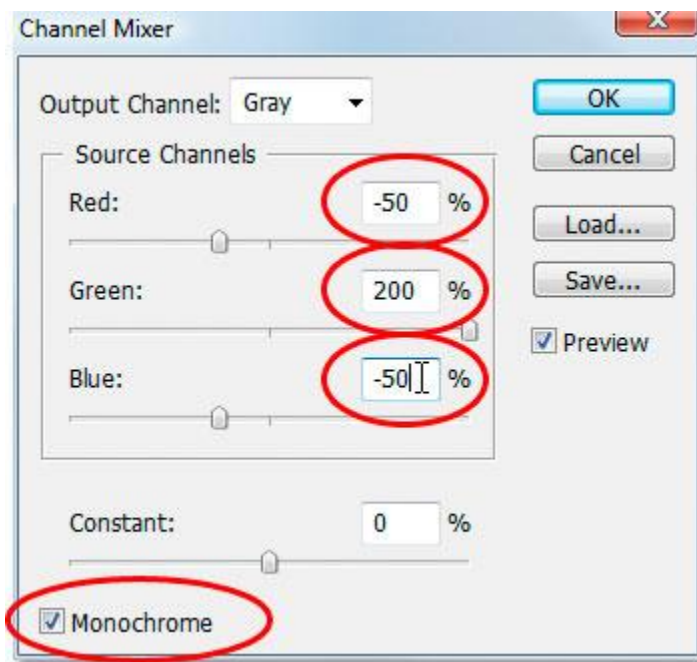
Step 5: Add A Channel Mixer Adjustment Layer

We need to bring up a Channel Mixer adjustment layer at this point, and we can do that by clicking on the **New Adjustment Layer** icon at the bottom of the Layers palette and selecting **Channel Mixer** from the list:



Photoshop tutorial: Click the "New Adjustment Layer" icon at the bottom of the Layers palette and select "Channel Mixer".

This brings up the Channel Mixer dialog box:



Photoshop tutorial: The Channel Mixer adjustment layer's dialog box.

I've circled in red the options we need to change. In the "Source Channels" section, set **Red to -50%**, **Green to 200%**, and **Blue to the same as red, -50%**. The general rule with these values in the Channel Mixer is that you want to keep the total value of all three channels at 100%, otherwise you'll either be losing contrast in the image or losing detail in the highlights, which is why, in order to set the Green value to 200%, we lowered both the Red and Blue values to -50%, giving us our 100%. Again, not something you need to know. I just like to toss these things out there.

Finally, click the **Monochrome** checkbox in the bottom left corner of the dialog box to keep the image in grayscale mode. Click OK when you're done.

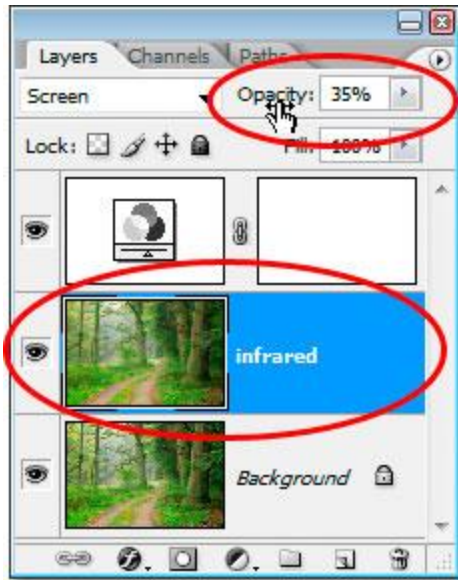
Here's my image with the Channel Mixer adjustment layer applied:



Photoshop tutorial: The image after applying the Channel Mixer.

Step 6: Lower The Opacity Of The "Infrared" Layer

At this point, the infrared effect is too intense. Let's reduce it by lowering the opacity of the "infrared" layer. First, click on the "infrared" layer in the Layers palette to select it, then go up to the **Opacity** option in the top right corner of the Layers palette, **hover your mouse directly over the word "Opacity"** to turn your mouse cursor into the "scrubby slider" icon, then **click and drag to the left** to lower the opacity value:



Photoshop tutorial: Lower the opacity value of the "infrared" layer to reduce the effect.

You'll probably have to reduce the opacity quite a bit. I've reduced mine to 35% in the screenshot above.

Here's my result:



Photoshop tutorial: The image after reducing the infrared effect.

The effect is pretty much complete at this point, but it's too clean. Infrared photos typically have a lot of grain in them, so to finish off the effect, we're going to add some noise.

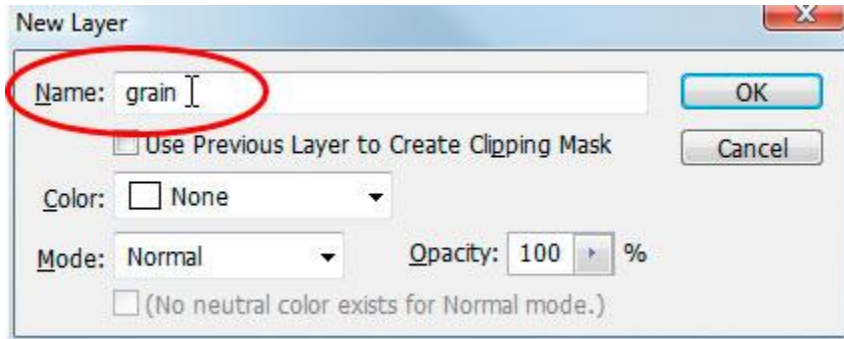


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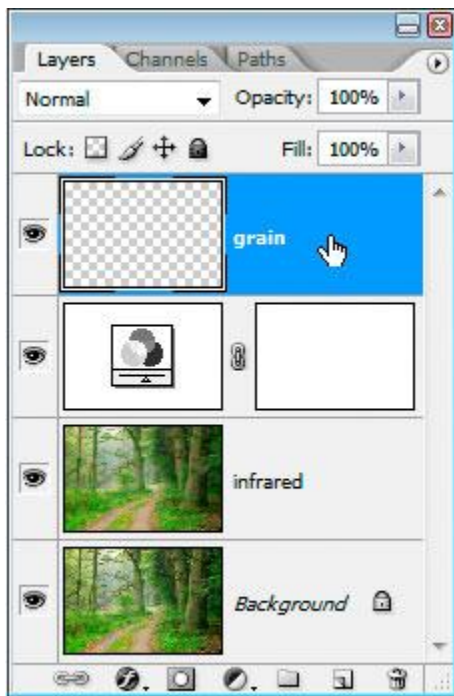
Step 7: Add A New Layer Above The Channel Mixer Adjustment Layer

Click on the Channel Mixer adjustment layer in the Layers palette to select it, then use the keyboard shortcut **Shift+Ctrl+N** (Win) / **Shift+Command+N** (Mac) to bring up Photoshop's **New Layer** dialog box:



Photoshop tutorial: Use the keyboard shortcut to bring up the New Layer dialog box.

Name the new layer "grain" as I've done in the screenshot above, and then click OK. Photoshop will add a new blank layer named "grain" above the Channel Mixer in the Layers palette:

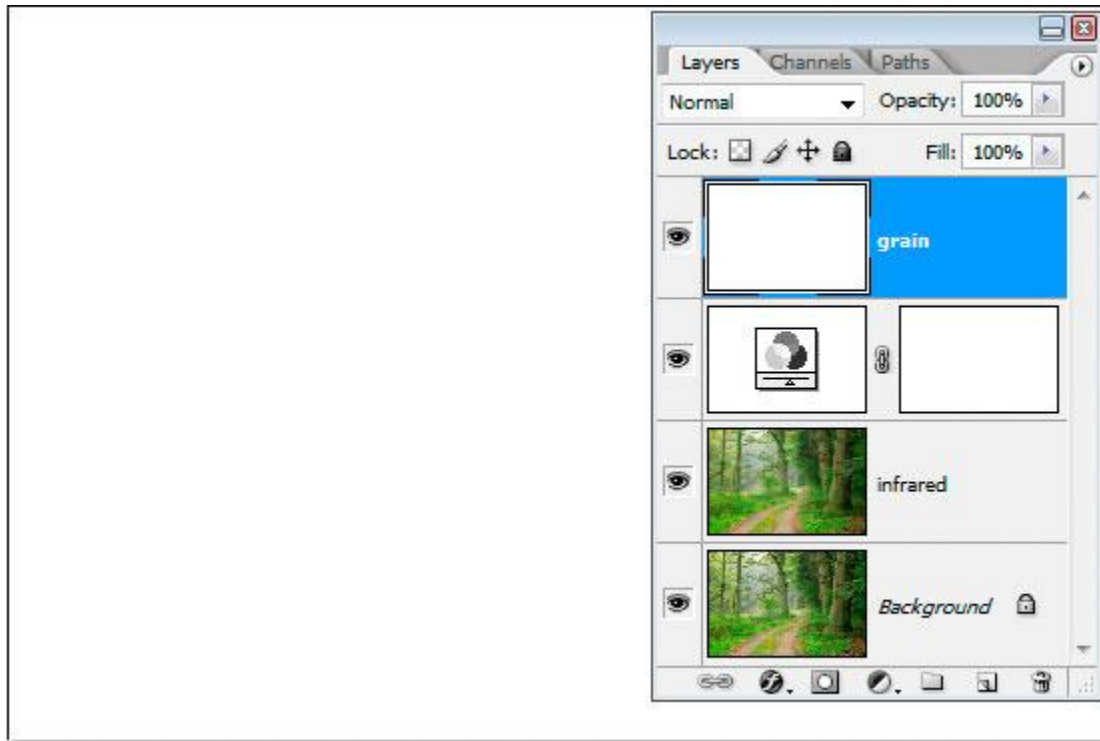


Photoshop tutorial: The Layers palette showing the new "grain" layer at the top.

Step 8: Fill The "Grain" Layer With White

Press the letter **D** on your keyboard to reset Photoshop's foreground and background colors to their defaults of black and white, respectively. Then, with the "grain" layer selected in the Layers

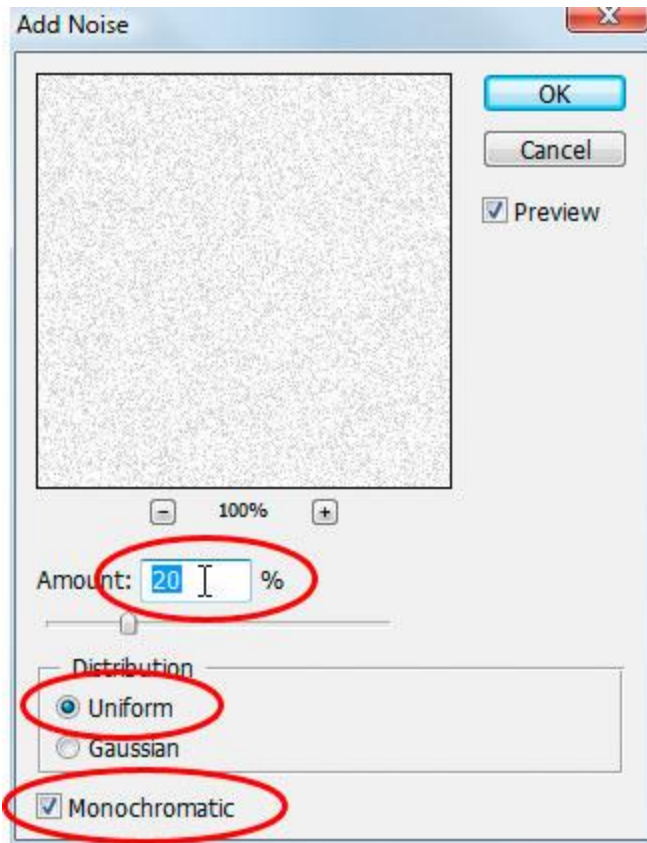
palette, use the keyboard shortcut **Ctrl+Backspace** (Win) / **Command+Delete** (Mac) to quickly fill this layer with solid white. The image in the document window will temporarily be hidden from view:



Photoshop tutorial: Filling the "grain" layer with white temporarily hides the image from view.

Step 9: Add Noise To This Layer

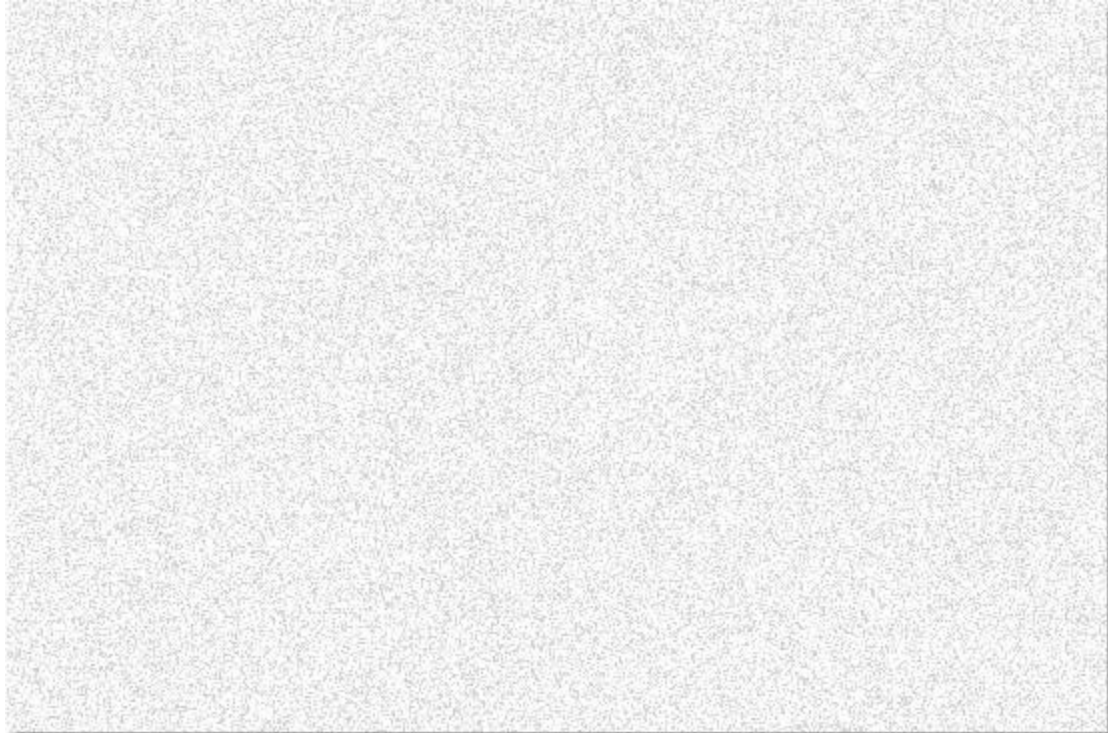
With the "grain" layer still selected, go up to the **Filter menu** at the top of the screen, select **Noise**, and then select **Add Noise** to bring up the "Add Noise" filter dialog box:



Photoshop tutorial: Select Filter > Noise > Add Noise to bring up the "Add Noise" filter's dialog box.

As circled in red above, set the **Amount** to **20%**, set **Distribution** to **Uniform**, and make sure **Monochromatic** at the bottom is **checked**.

This adds our grain to the image, but problem is, we still can't see the image below the grain:



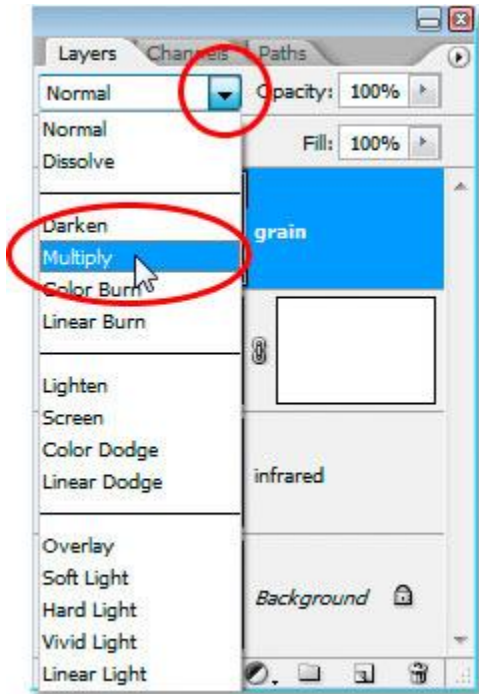
Photoshop tutorial: The solid white layer is now filled with noise to create the "grain" effect, but it's still blocking the image below from view.

We'll fix that next.



Step 10: Change The Blend Mode Of The "Grain" Layer To "Multiply"

Just as we did for the "infrared" layer, we're going to change the blend mode of this "grain" layer, except this time, instead of changing it to "Screen", we're going to change it to "Multiply". With the "grain" layer selected, go back up to the blend mode options at the top of the Layers palette and this time choose **Multiply** from the list:



Photoshop tutorial: Change the "grain" layer's blend mode from "Normal" to "Multiply"

As soon as we change the blend mode to Multiply, the image becomes visible once again through the grain, giving us our final effect:



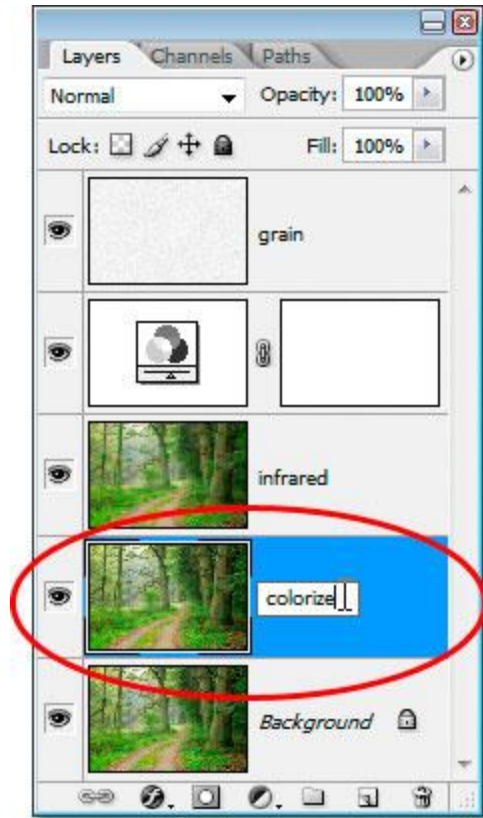
Photoshop tutorial: Setting the blend mode of the "grain" layer to "Multiply" gives us our final infrared effect.

If you find you've added too much grain to the image, simply lower the opacity of the grain layer to reduce the amount.

There's one more thing we could do here with our image, and that's to bring back some of the original color. You can of course leave it as is if you want, but if you want to bring back some color, here's how.

Step 11: Duplicate The Background Layer Once Again

Click on the Background layer in the Layers palette to select it, then once again use the keyboard shortcut **Ctrl+J** (Win) / **Command+J** (Mac) to duplicate it. Since you should always be in the habit of naming your layers, I'll rename this layer to "colorize":



Photoshop tutorial: With the Background layer selected, press "Ctrl+J" (Win) / "Command+J" (Mac) to duplicate the Background layer once again, then rename it to "colorize".

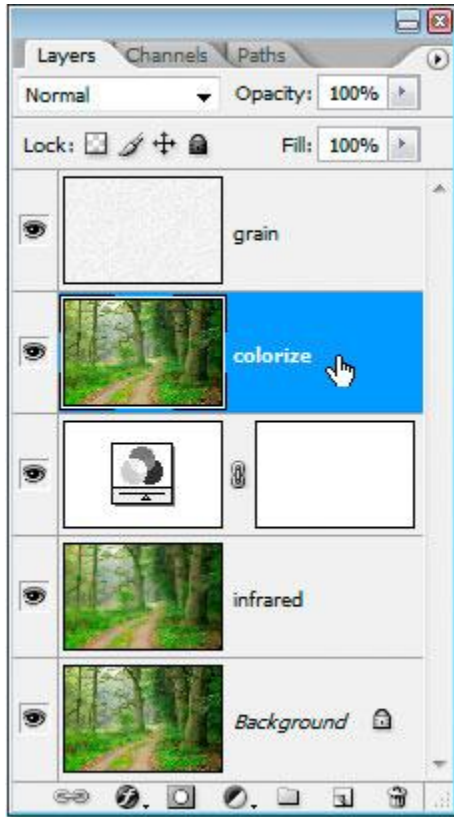


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Step 12: Drag The "Colorize" Layer Up Between The Channel Mixer and Grain Layers

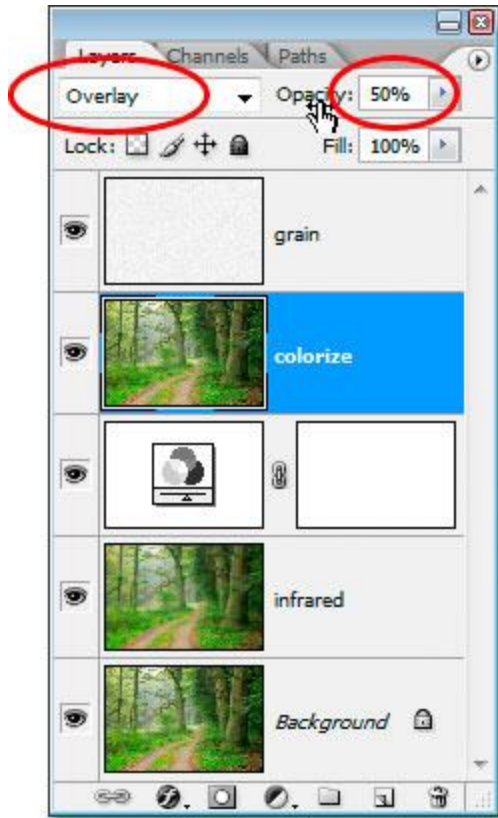
Next, click on the "colorize" layer and drag it up between the Channel Mixer adjustment layer and the "grain" layer. You'll see the line dividing the two layers highlight as you get close to it. Release your mouse at that point to drop the layer into place:



Photoshop tutorial: Click and drag the "colorize" layer between the Channel Mixer adjustment layer and the "grain" layer.

Step 13: Change The Blend Mode To "Overlay" And Lower The Opacity To 50%

Finally, change the blend mode of the "colorize" layer from Normal to **Overlay** and then lower the opacity of the layer to 50%:



Photoshop tutorial: Set the "colorize" layer's blend mode to "Overlay" and lower the opacity to 50%.

And we're done! We've brought some of the original color back into the effect.

Here's the image as it was back before we started:



Photoshop tutorial: The original image once again for comparison.

And here's the final result:



Photoshop tutorial: The final result.

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